

## CLAIMS

1. A unit for sending from a base station (10) to terminals in a telecommunications system, said unit comprising at least two sending channels or groups of  
5 sending channels (12, 14) adapted to send on a plurality of adjacent carrier frequencies, said channels being able to send in spatial diversity mode so that the same information may be sent by the channels or groups of channels on the same carrier frequency or frequencies,  
10 which unit is characterized in that the channels or groups of channels use at least one common carrier frequency ( $F_2$ ,  $F_3$ ) for sending in spatial diversity mode and at least one of the channels or groups of channels comprises at least one different frequency ( $F_1$ ,  $F_4$ ) for  
15 sending without spatial diversity or with a lower degree of spatial diversity.
2. A unit according to claim 1, characterized in that each of the channels or groups of channels uses at least  
20 one carrier frequency for sending without spatial diversity or with a lower degree of spatial diversity.
3. A unit according to claim 1 or claim 2, characterized in that at least one of the sending channels comprises a  
25 power amplifier able to send on a plurality of carrier frequencies and the active frequencies of which may be selected by programming them.
4. A unit according to any one of claims 1 to 3,  
30 characterized in that it comprises means for modifying the sending frequency during a call or during a standby period and for each of the terminals in the area covered by the station, from a first frequency with spatial diversity to a second frequency without spatial diversity  
35 or with a lower degree of spatial diversity than for the first frequency, and vice-versa.

5. A unit according to claim 4, characterized in that changing from a first frequency with spatial diversity to a second frequency without spatial diversity or with a lower degree of spatial diversity, or vice versa, is effected as a function of at least one of the following parameters: the estimated position of the terminal relative to the base station, the bit rate of the call from the base station to the terminal, the level or quality of reception of signals by the terminal, the power necessary for calling the terminal, and the class and type of subscription of the terminal.
6. A unit according to claim 4 or claim 5, characterized in that it comprises a device (18) for assigning radio resources adapted to modify the sending frequency used for each call to a terminal.
7. A unit according to any one of claims 1 to 6, characterized in that it comprises two groups of channels and each group comprises at least one frequency used with spatial diversity only for that group and at least one other frequency used with spatial diversity for both groups.
8. Application of a channel according to any preceding claim to a telecommunications system conforming to the UMTS, CDMA 2000, or DOCOMO standard.
9. Application of a channel according to claim 4 to a telecommunications system able to reassign frequencies during a call and/or in a standby mode of the terminals.